Example of Process Flow Diagram

Filters

Ion Exchange Canister

Bypass for Recirculated Water

Supply and Makeup Water

Filter 1.0

Ion Exchange 2.0

DI Water

Chiller 3.0

Spent Filters to Metals Recycling

1.1

Spent Ion Exchange Canister to Vendor

2.1

Recirculated Water

Backing Plate

Wire on Spools

Disposable Mat

Material to be Cut

EDM (2 units) 4.0

Cut Part

Legend

☐ Solid Waste

△ Air Emissions

◯ Wastewater

SS = Sanitary Sewer

Scrap Material, Spent Wire, Backing Plates to Metals Recycling

4.1

Sludge to Industrial Waste (with Burning Table Sludge)

4.2

Reusable Material to Material Storage

Vapors to Room Ventilation System

4.3

Disposable Mat (with Sludge) to Industrial Waste

4.4

Spent Water to Water Eater

4.5

Plastic Spools to Wire Supplier

4.6

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BROOKHAVEN NATIONAL LABORATORY
PROCESS ASSESSMENT PROGRAM

**Central Shops Division - Electrical Discharge Machine
Process Flow Diagram**